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# #42 Collection #42 Tracking/Designated Lineages Fastest 100 Plus Recent Designations

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This collection keeps track of recent designated lineages - daily updated

Suggested baseline (6 Dec 2023):
JN.1* (Nextclade)

This collection was last updated at Mon 13 May 2024 14:42 UTC.

## Variants

World

Past 6 months | from 2023-11-13 | to 2024-05-08

**Baseline:** You can select a baseline variant to compare the variants in the collection against that variant. **Currently, the baseline variant is XBB.1.5* (Nextclade).**

xbb.1.5* (Nextclade) ×

Advanced search

Select baseline only

TABLE SEQUENCES OVER TIME MUTATIONS

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| | Name | Query | Number sequences | Submitted in past 10 days | Relative growth advant… | CI (low) | CI (high) | Description |
|---|---|---|---|---|---|---|---|---|
| ★ | LB.1 (JN.1.9.2.1; BA.2.86.1.1.9.2.1) with S:S31del | JN.1* (Nextclade) + S:Q183H, S:R346T, S:F456L, S:S31- | 139 | 65 | 202.03% | 130.18% | 273.88% | S:S31del |
| ★ | KP.3 (JN.1.11.1.2; BA.2.86.1.1.11.1.3) | JN.1.11.1* (Nextclade) + S:Q493E | 883 | 388 | 190.86% | 153.82% | 227.89% | S:Q493E |
| ★ | Multilineage JN.1 Spike with S:S31del, S:R346T, S:F456L | C22916T, T22917G, T22926C + S:S31-, S:R346T, S:F456L | 320 | 156 | 187.03% | 138.53% | 235.53% | S:R346T S:F456L S:S31 |
| ★ | KP.1.1.1 (JN.1.11.1.1.1.1.1; BA.2.86.1.1.11.1.1.1.1) | KP.1.1.1* | 168 | 73 | 179.92% | 129.31% | 230.52% | S:K182N |
| ★ | LB.1 (JN.1.9.2.1; BA.2.86.1.1.9.2.1) | JN.1* (Nextclade) + S:Q183H, S:R346T, S:F456L | 163 | 75 | 178.42% | 125.09% | 231.74% | |

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|---|---|---|---|---|---|---|---|---|
| ★ | KP.2 (JN.1.11.1.2; BA.2.86.1.1.11.1.2) | KP.2* | 1 670 | 449 | 174.30% | 151.55% | 197.05% | S:R346T |
| ★ | KP.2.2 (JN.1.11.1.2.2; BA.2.86.1.1.11.1.2.2) | KP.2.2* | 64 | 30 | 170.27% | 108.11% | 232.42% | S:F59L S:K1266R |
| ★ | KP.2.3 (JN.1.11.1.2.3; BA.2.86.1.1.11.1.2.3) | JN.1.11.1* (Nextclade) + S:F456L, S:H146Q, ORF3a:K67N | 149 | 76 | 160.22% | 116.50% | 203.95% | S:H146Q ORF3a:K67N |
| ★ | KS.1 (JN.1.13.1.1; BA.2.86.1.1.13.1.1) | KS.1* | 318 | 94 | 159.44% | 126.69% | 192.20% | S:F456L |
| ★ | LA.2 (JN.1.16.2.2; BA.2.86.1.1.16.2.2) | JN.1.16* (Nextclade) + C4777T + S:R346I | 74 | 4 | 154.29% | 107.01% | 201.57% | S:R346I |
| | XDV.1 | C1170T, C6501A, T22926C, C11572T, T22930A | 70 | 26 | 154.13% | 104.19% | 204.07% | C11572T S:F456L via T2 |
| ★ | Multilineage JN.1 Spike with S:R346I and S:F456L | C22916T, T22917G, T22926C + S:R346I, S:F456L | 79 | 6 | 153.77% | 108.14% | 199.40% | S:R346I S:F456L |
| ★ | KP.1.1 (JN.1.11.1.1.1; BA.2.86.1.1.11.1.1.1) | KP.1.1* | 656 | 271 | 152.41% | 128.91% | 175.92% | S:R346T |
| ★ | KP.2.1 (JN.1.11.1.2.1; BA.2.86.1.1.11.1.2.1) | KP.2.1* | 50 | 15 | 149.19% | 99.57% | 198.81% | S:Q1201K |
| ★ | JN.1.48.1 (BA.2.86.1.1.48.1) | JN.1* (Nextclade) + T18471C, G29134T + ORF3a:A99V, S:S60P, S:R346T, S:F456L | 33 | 11 | 148.89% | 92.75% | 205.04% | ORF3a:A99V S:S60P S:F |
| ★ | Multilineage JN.1 Spike with S:R346T and S:F456L | C22916T, T22917G, T22926C + S:R346T, S:F456L | 4 029 | 1 165 | 146.59% | 133.76% | 159.43% | S:R346T S:F456L |
| ★ | LA.1 (JN.1.16.2.1; BA.2.86.1.1.16.2.1) | JN.1* (Nextclade) + C4777T + S:R346T, S:F456L | 86 | 8 | 144.80% | 106.95% | 182.65% | S:R346T |
| ★ | KZ.1.1.1 (JN.1.1.6.1.1.1; BA.2.86.1.1.1.6.1.1.1) | JN.1* (Nextclade) + T22928C, C1762A, C11747T + ORF1b:V1092F, S:R346T, S:T572I | 20 | 6 | 142.20% | 78.11% | 206.28% | S:T572I |
| ★ | Multilineage JN.1 Spike with S:R346T, S:F456L, and S:T572I | C22916T, T22917G, T22926C + S:R346T, S:F456L, S:T572I | 57 | 19 | 132.29% | 93.65% | 170.93% | S:R346T S:F456L S:T57 |
| ★ | JN.1.16.2 (BA.2.86.1.1.16.2) | JN.1.16* (Nextclade) + C4777T | 214 | 20 | 129.16% | 106.59% | 151.73% | C4777T |
| ★ | JN.1.18.2 (BA.2.86.1.1.18.2) | JN.1.18.2* | 118 | 26 | 127.23% | 101.35% | 153.12% | S:F59S |
| ★ | KW.1.1 (JN.1.28.1.1.1; BA.2.86.1.1.28.1.1.1) | KW.1.1* (Nextclade) | 196 | 63 | 125.75% | 102.68% | 148.81% | S:F456L ORF1b:R2009K |
| ★ | Multilineage JN.1 Spike with S:S31del and S:R346T | C22916T, T22917G, T22926C + S:S31-, S:R346T | 406 | 168 | 124.29% | 105.25% | 143.32% | S:R346T S:S31del |
| ★ | Multilineage JN.1 Spike with S:R346T and S:F456V | C22916T, T22917G, T22926C + S:R346T, S:F456V | 121 | 27 | 123.99% | 98.88% | 149.11% | S:R346T S:F456V |
| ★ | KP.4.1 (JN.1.11.1.4.1; BA.2.86.1.1.11.1.4.1) | JN.1.11.1* (Nextclade) + C6070T, C19884T + S:R346T | 139 | 23 | 122.99% | 99.08% | 146.90% | C19884T S:R346T |
| ★ | JN.1.7.4 (BA.2.86.1.1.7.4) | JN.1.7* (Nextclade) + T22928C | 60 | 18 | 120.35% | 89.81% | 150.89% | S:F456L via T22928C |
| ★ | KP.4 (JN.1.11.1.4; BA.2.86.1.1.11.1.4) | JN.1.11.1* (Nextclade) + C6070T | 266 | 52 | 117.53% | 99.96% | 135.11% | C6070T |
| ★ | KP.1.2 (JN.1.11.1.1.2; BA.2.86.1.1.11.1.1.2) | JN.1.11.1* (Nextclade) + S:K1086R, S:T572I | 29 | 7 | 114.73% | 78.98% | 150.48% | S:T572I |
| ★ | KU.2 (JN.1.30.1.2; BA.2.86.1.1.30.1.2) | KU.2* | 54 | 11 | 113.79% | 86.55% | 141.04% | S:F456L |
| ★ | JN.1.16.1 (BA.2.86.1.1.16.1) | JN.1.16.1* | 607 | 150 | 112.13% | 99.41% | 124.84% | S:R346T |
| ★ | XDQ.1 | XDQ.1* | 648 | 61 | 110.71% | 99.96% | 121.46% | S:A475V |
| ★ | KP.1 (JN.1.11.1.1; BA.2.86.1.1.11.1.1) | KP.1* | 900 | 289 | 110.39% | 99.64% | 121.14% | S:K1086R |
| ★ | JN.1.9.2 (BA.2.86.1.1.9.2) | JN.1* (Nextclade) + S:Q183H, S:R346T | 187 | 76 | 109.38% | 90.92% | 127.85% | S:R346T |

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|---|---|---|---|---|---|---|---|---|
| ★ | KP.4.2 (JN.1.11.1.4.2; BA.2.86.1.1.11.1.4.2) | JN.1.11.1* (Nextclade) + C6070T + S:R346T, S:K187R | 76 | 16 | 108.52% | 86.17% | 130.87% | S:R346T S:K187R |
| ★ | KZ.1.1 (JN.1.1.6.1.1; BA.2.86.1.1.1.6.1.1) | JN.1* (Nextclade) + T22928C, C1762A, C11747T + ORF1b:V1092F, S:R346T | 37 | 6 | 106.74% | 78.88% | 134.59% | S:R346T |
| ★ | KQ.1 (JN.1.4.3.1; BA.2.86.1.1.4.3.1) | JN.1.4.3* (Nextclade) + S:R346T | 494 | 42 | 97.36% | 88.02% | 106.70% | S:R346T |
| ★ | Sequences with Slip (S:L455S and S:F456L) | S:L455S, S:F456L | 8 935 | 2 152 | 93.28% | 89.09% | 97.47% | S:L455S S:F456L |
| | XDQ | XDQ* (Nextclade) | 1 480 | 110 | 92.07% | 86.08% | 98.05% | BA.2.86.1/FL.15.1.1 reco |
| ★ | JN.1.33 (BA.2.86.1.1.33) | JN.1.33* | 252 | 6 | 91.02% | 80.97% | 101.08% | G2782T C5512T S:A67V |
| ★ | JN.1.11.1 (BA.2.86.1.1.11.1) | JN.1.11.1* (Nextclade) | 4 627 | 1 303 | 90.78% | 85.97% | 95.59% | S:F456L |
| ★ | JN.1.13.1 (BA.2.86.1.1.13.1) | JN.1.13.1* | 1 447 | 191 | 88.93% | 83.04% | 94.83% | S:R346T S:F59S |
| ★ | JN.1.7.2 (BA.2.86.1.1.7.2) | JN.1.7.2* | 599 | 22 | 87.76% | 80.62% | 94.90% | ORF1b:C1563F NSP14:C |
| ★ | JN.1.16 (BA.2.86.1.1.16) | JN.1.16* (Nextclade) | 2 722 | 503 | 87.64% | 82.65% | 92.63% | S:F456L |
| ★ | JN.1.13 (BA.2.86.1.1.13) | JN.1.13* (Nextclade) | 1 550 | 203 | 85.74% | 80.32% | 91.16% | S:A1087S |
| ★ | JN.1.7.1 (BA.2.86.1.1.7.1) | JN.1.7.1* | 110 | 6 | 84.28% | 72.05% | 96.51% | S:R346K |
| ★ | JN.1.4.3 (BA.2.86.1.1.4.3) | JN.1.4.3* (Nextclade) | 727 | 55 | 84.01% | 77.62% | 90.39% | S:T572I |
| ★ | JQ.2.1 (BA.2.86.3.2.1) | BA.2.86.3* (Nextclade) + G2944A + S:R346T, S:L455S | 30 | 4 | 83.70% | 64.33% | 103.06% | S:L455S |
| ★ | JN.1.7 (BA.2.86.1.1.7) | JN.1.7* (Nextclade) | 6 118 | 386 | 81.90% | 78.66% | 85.14% | S:T572I S:E1150D |
| ★ | JN.1.11 (BA.2.86.1.1.11) | JN.1.11* (Nextclade) | 4 861 | 1 307 | 81.58% | 77.68% | 85.48% | G17334T S:V1104L |
| | XDV | C1170T, C6501A, T22926C | 100 | 31 | 81.25% | 69.04% | 93.46% | XDE/JN.1 recombinant |
| ★ | JN.1.30.1 (BA.2.86.1.1.30.1) | JN.1.30.1* | 109 | 13 | 79.38% | 68.34% | 90.42% | T7789C S:R346T |
| ★ | KV.2 (JN.1.4.5.2; BA.2.86.1.1.4.5.2) | KV.2* (Nextclade) | 791 | 23 | 79.03% | 73.57% | 84.49% | C11956T S:T572I ORF1a |

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|---|---|---|---|---|---|---|---|---|
| ★ | JN.1.32.1 (BA.2.86.1.1.32.1) | JN.1* (Nextclade) + C23277T, C280C, G488G, A496A, C683C, C745C, C774C, T997T, C1060C, T1276T, C1288C, G1408G, G1590G, C1601C, C1612C, T1651T, C1762C, C1779C, G2155G, T2236T, A2526A, G2683G, C2695C, G2782G, A2941A, A3181A, T3127T, T3214T, G3875G, A4005A, T4138T, G4294G, C4543C, T4804T, C4921C, T4922T, A5269A, T5422T, G5558G, A6705A, C6555C, A5053A, C5184C, A6613A, C6633C, C7113C, C7423C, C7594C, C7732C, C8802C, A8845A, C9131C, C9298C, C9451C, C9565C, C9693C, C10369C, C10456C, C10726C, C10747C, C11102C, C11747C, T12244T, A13288A, C13326C, A13533A, C13620C, C13663C, C13720C, T14179T, C14267C, T14334T, T14466T, T14811T, G15226G, C15720C, G16106G, G16269G, C17012C, G17278G, G17562G, C17676C, A18093A, T18453T, G18674G, C18687C, T18738T, G18960G, C19011C, G19086G, G19132G, A19314A, A19578A, G20176G, T20874T, A21589A, C21741C, T22270T, T22669T, T22926C, T23137T, C23601C, C23896C, T24424T, C24734C, G25012G, T25171T, G25249G, A25327A, A25426A, C25566C, C25680C, G25987G, G26101G, C26499C, T26511T, G27047G, C27476C, G27948G, A28104A, G28123G, C29642C, A29700A + S:Q183H | 44 | 1 | 78.99% | 63.98% | 94.00% | S:Q183H |
| ★ | JN.1.24.1 (BA.2.86.1.1.24.1) | JN.1* (Nextclade) + S:C1243F, S:R346T | 71 | 4 | 78.41% | 65.40% | 91.43% | S:R346T |
| ★ | JN.1.4.4 (BA.2.86.1.1.4.4) | JN.1.4.4* | 901 | 86 | 78.21% | 72.88% | 83.53% | S:R346T |
| ★ | JN.1.23 (BA.2.86.1.1.23) | JN.1.23* | 151 | 45 | 77.78% | 68.37% | 87.20% | S:K444R S:Y453F ORF1 NSP3:P1326L |
| ★ | XDK.1 | XDK.1* | 249 | 50 | 76.35% | 68.20% | 84.50% | S:R346T |
| ★ | KR.1 (JN.1.1.5.1; BA.2.86.1.1.1.5.1) | KR.1* | 72 | 0 | 76.13% | 64.23% | 88.03% | C28498T S:F456L |
| ★ | KU.1 (JN.1.30.1.1; BA.2.86.1.1.30.1.1) | KU.1* | 11 | 0 | 76.00% | 51.27% | 100.74% | S:K182Q |
| ★ | JN.1.9.1 (BA.2.86.1.1.9.1) | JN.1.9.1* (Nextclade) | 262 | 16 | 75.96% | 68.31% | 83.60% | S:T572I ORF1a:A3143V |
| ★ | JQ.2 (BA.2.86.3.2) | JQ.2* | 53 | 10 | 75.88% | 62.45% | 89.31% | G2944A S:R346T |
| ★ | XDD.1.1.1 | XDD.1.1* (Nextclade) + S:R346T | 17 | 2 | 75.67% | 55.01% | 96.32% | S:R346T |
| ★ | KW.1 (JN.1.28.1.1; BA.2.86.1.1.28.1.1) | KW.1* | 435 | 75 | 74.75% | 68.31% | 81.19% | S:T572I |
| ★ | JN.1.18.1 (BA.2.86.1.1.18.1) | JN.1.18.1* | 83 | 0 | 74.31% | 63.49% | 85.12% | S:T250N |
| ★ | KZ.1 (JN.1.1.6.1; BA.2.86.1.1.1.6.1) | JN.1* (Nextclade) + T22928C, C1762A, C11747T + ORF1b:V1092F | 58 | 7 | 72.72% | 60.66% | 84.79% | ORF1b:V1092F NSP13:V |
| ★ | XDP.1 | XDP* (Nextclade) + ORF1a:L397P, ORF1a:H388Y, S:E1092D | 137 | 7 | 71.04% | 62.48% | 79.61% | ORF1a:L397P NSP2:L21 S:E1092D |
| ★ | JN.1.40 (BA.2.86.1.1.40) | JN.1.40* | 63 | 11 | 70.38% | 59.16% | 81.59% | S:S31P |

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|---|---|---|---|---|---|---|---|---|
| ★ | JN.1.1.6 (BA.2.86.1.1.1.6) | JN.1.1.6* | 229 | 50 | 68.44% | 61.65% | 75.23% | S:F456L direct on the pol |
| ★ | JN.1.37 (BA.2.86.1.1.37) | JN.1* (Nextclade) + C23601T, G248G, G644G, G670G, C774C, A1078A, G1156G, C1185C, T1333T, A1461A, G1658G, C1762C, G2144G, G2173G, G2309G, G2782G, G2900G, G3875G, G4016G, T4804T, T4885T, G4963G, C5090C, C5581C, C5822C, C5849C, C5956C, C6538C, G7273G, G7646G, A7981A, C8074C, G8548G, G8578G, C8802C, A8812A, A10471A, A10558A, C11020C, A11260A, C12754C, G12832G, C15212C, G16269G, A16320A, C16551C, G17278G, G17334G, G17395G, G17562G, T18453T, T19104T, C21774C, C21998C, G22627G, G24821G, A25327A, G25634G, G26143G, T26511T, C26882C, C27476C, T27851T, T28053T, A28104A, A29086A, C29144C, A29684A | 116 | 10 | 67.85% | 59.39% | 76.31% | S:S680F on the polytomy |
| ★ | JN.1.18 (BA.2.86.1.1.18) | JN.1.18* (Nextclade) | 2 474 | 169 | 67.54% | 64.40% | 70.68% | S:R346T direct on the po |
| ★ | JN.1.8.1 (BA.2.86.1.1.8.1) | JN.1.8.1* (Nextclade) | 3 336 | 142 | 67.41% | 64.59% | 70.22% | S:T572I |
| ★ | XDS | XDS* (Nextclade) | 111 | 6 | 67.24% | 58.67% | 75.82% | EG.5.1.3/JN.3.2.1 recom |
| | XDQ.3 | XDQ* (Nextclade) + S:P681H | 59 | 3 | 66.21% | 55.51% | 76.91% | S:R681H |
| ★ | JN.1.32 (BA.2.86.1.1.32) | JN.1.32* | 2 512 | 161 | 66.13% | 63.06% | 69.20% | S:T572I direct on the poly |
| | BA.2.12.1* | BA.2.12.1* (Nextclade) | 11 | 131 | 66.12% | 46.39% | 85.85% | S:L452R S:S704L |
| ★ | JN.1.28.1 (BA.2.86.1.1.28.1) | JN.1.28.1* | 586 | 78 | 66.01% | 61.18% | 70.84% | C19545T C24370T ORF |

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The sequence data was updated: Last Monday at 8:23 AM
Nextclade dataset version: 2024-04-15--15-08-22Z
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